

Summary

Title: PRODUCTION OF ANTI-HUMAN TIMP-2 MONOCLONAL ANTIBODY AND USE THEREOF
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Abstract:

PURPOSE: To provide the subject monoclonal antibody specific to human tissue inhibitor of metalloproteinase-2(TIMP-2), to be used for reagents for the immunoassay of such TIMP-2 having interstitial collagenase-inhibitory activity.

CONSTITUTION: Human tissue inhibitor of metalloproteinase-2(TIMP-2) polypeptide is synthesized from cDNA following determination of amino acid sequence and linked to keyhole limpet hemocyanine to prepare an immunogen, which is, in turn, is administered, together with an adjuvant, to a Ba1b/c mouse to immunize it. After the final immunization, the splenocytes are taken from the resultant mouse and fused with myeloma cells, and the resulting syncytia are cultured in a HAT medium to obtain hybridoma, which is, in turn, screened and then cloned with limiting dilution technique; the resulting monoclonal hybridoma is cultured in a medium or the mouse peritoneal cavity, and the antibody from the culture solution or the mouse ascites is purified, thus obtaining the objective monoclonal antibody specific to human TIMP-2.

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